

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	39	("5504905").URPN.	USPAT	OR	OFF	2007/04/10 13:55
L3	39	("5504905").URPN.	USPAT	OR	OFF	2007/04/10 14:07
L4	5	("5237689" "5237690" "5307465" "5379431" "5390303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/10 14:07
L5	31	((monitor\$4 or validat\$4 or permi\$5 or allow\$4 or manag\$5 or administrat\$4)near4(configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4)))with ((data or onformation or document) adj (scan\$4 or process\$4 or print\$3))same ((trigger\$4 or initiat\$4 or interrupt\$4 or instantiat\$4 or notif\$4 or notification or event or messag\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:11
L6	6	((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:23
L7	6	((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:30
L8	2	((((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4))).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:25
L9	1	("6785706").URPN.	USPAT	OR	OFF	2007/04/10 15:29
L10	56530	"713"/("1" 2 "100").ccls.	USPAT	OR	OFF	2007/04/10 15:29

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L11	68982	"707"/("1" "200").ccls.	USPAT	OR	OFF	2007/04/10 15:29
L12	70830	"709"/("202" "203" "206" "226").ccls.	USPAT	OR	OFF	2007/04/10 15:30
L13	0	l10 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:31
L14	1	l11 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:32
L15	1	l12 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:32
L16	0	l10 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1 or specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:31

EAST Search History

L17	1	l11 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1 or specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:34
L18	1	l11 and (((notif\$4 or notificat\$4 or interrupt\$4 or event or signal or trigger\$4 or direct\$4)near3 (supervis\$4 or administrat\$4))with ((configur\$5 or parameter\$1 or specified)near3 (chang\$3 or alter\$5 or modificat\$5 or updat\$4 or upgrad\$4))same ((document or information or image or data)near4 (process\$4 or imag\$4 or print\$4 or cop\$4 or scan\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 15:32
S1	14	("6526442" "20020129141" "20020178243" "20030005109" "20030221004" "20040024736" "20040025092").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 15:06
S2	15	("6526442" "20020129141" "20020178243" "20030005109" "20030221004" "20040024736" "20040025092").uref.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 15:10
S3	28491	"713"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:34
S4	2414	S3 and ((stor\$4 or sav\$4)near6 ((identifier or identification or ID or contact)near2 (data or information or unique)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 15:47

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S5	26	S3 and ((monitor\$4 or track\$4 or authenticat\$4 or approv\$4 or allow\$4 or permi\$5)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:26
S6	150	((monitor\$4 or track\$4)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:21
S7	17	("20020188778" "20020191548" "20020198968" "20030055529" "20030101247" "20040019670" "20040032625" "20050080598" "4761646" "5535409" "6480955" "6591373" "6728723" "6775559" "6895414" "6898202" "6901580"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/16 15:34
S8	17	S6 and ((stor\$4 or sav\$4)near6 ((identifier or identification or ID or contact)near2 (data or information or unique)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:19
S9	4	("6205330" "20040185877").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:05
S10	331	((stor\$4 or sav\$4)with((identifier or identification or ID or contact)near2 (data or information or unique)))with (supervisor or administrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:20

EAST Search History

S11	2	S10 and (((monitor\$4 or track\$4)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:21
S12	3	S10 and ((monitor\$4 or track\$4 or authenticat\$4 or approv\$4 or allow\$4 or permi\$5)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:35
S13	4	("5852746").URPN.	USPAT	OR	ON	2006/11/16 16:31
S14	41871	"702"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:34
S15	39086	"707"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:34
S16	49582	"709"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:34
S17	5	S14 and ((monitor\$4 or track\$4 or authenticat\$4 or approv\$4 or allow\$4 or permi\$5)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:35

EAST Search History

S18	12	S15 and ((monitor\$4 or track\$4 or authenticat\$4 or approv\$4 or allow\$4 or permi\$5)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:36
S19	63	S16 and ((monitor\$4 or track\$4 or authenticat\$4 or approv\$4 or allow\$4 or permi\$5)with ((configuration near3 (chang\$2 or alter\$5 or modification or variation or parameters or valu\$2 or setting\$1))) with (((process\$4 or comput\$4 or output\$4)near2 (device or apparatus))or printer or scanner or scaner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/16 16:45
S20	1	("6895414").URPN.	USPAT	OR	ON	2006/11/16 16:42
S21	6012	((notif\$4 or inform\$3 or notfication or information)with (administrator or supervisor or server or master))with ((configur\$5 or system) near3 (parameter\$1 or enviornment or setting\$1 or valu\$2 or chang\$4 or alter\$5 or modification or updat\$3 or upgrad\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/17 08:32
S22	369	((notif\$4 or inform\$3 or notfication or information)with (administrator or supervisor or server or master))with (((configur\$5 or system) near3 (parameter\$1 or enviornment or setting\$1 or valu\$2)) with (variation\$1 or chang\$4 or alter\$5 or modification or updat\$3 or upgrad\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/17 08:34
S23	103	S22 same (((data or information or imag\$4)near3 (process\$4 or manag\$4 or control\$4))or (printer or scanner or copier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/17 08:35
S24	23	S23 and (((contact or person\$4 or address or email)near3 (information or address or document or data))with (supervisor or administrator or master or server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/17 08:38

EAST Search History

S25	23	S23 and (((contact or person\$4 or address or email)near3 (information or address or document or data))with (supervisor or administrator or master or server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/17 08:38
S26	242	(configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4))with (trigger\$4 or initiat\$4 or interrupt\$4 or instantiat\$4 or notif\$4 or notification)same (supervisor or administrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 09:52
S27	9	S26 and (document near2 process\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 09:54
S28	0	("7024548").URPN.	USPAT	OR	OFF	2007/04/10 09:13
S29	7	("20020129141" "20020178243" "20030005109" "20030221004" "20040024736" "20040025092" "6526442").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/10 09:26
S30	6	("20020069272" "20040196492" "6185682" "6470454" "6895414" "7024548").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/10 09:26
S31	23	("20020069272" "20040196492" "6185682" "6470454" "6895414" "7024548").uref.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/10 09:52
S32	17	("20020129141" "20020178243" "20030005109" "20030221004" "20040024736" "20040025092" "6526442").uref.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/10 09:26
S33	958	(configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4))with (trigger\$4 or initiat\$4 or interrupt\$4 or instantiat\$4 or notif\$4 or notification)same (supervis\$3 or administrat\$3 or monitor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:11

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S34	33	S33 and (document near2 process\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 09:54
S35	1	((monitor\$4 or validat\$4 or permi\$5 or allow\$4 or manag\$5 or administrat\$4)near4(configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4)))with (document adj (scan\$4 or process\$4 or print\$3))same ((trigger\$4 or initiat\$4 or interrupt\$4 or instantiat\$4 or notif\$4 or notification or event or messag\$4)near5 (supervis\$3 or administrat\$3 or monitor\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:16
S36	12	((monitor\$4 or validat\$4 or permi\$5 or allow\$4 or manag\$5 or administrat\$4)near4(configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4)))with ((data or information or document) adj (scan\$4 or process\$4 or print\$3))same ((trigger\$4 or initiat\$4 or interrupt\$4 or instantiat\$4 or notif\$4 or notification or event or messag\$4)near5 (supervis\$3 or administrat\$3 or monitor\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:23
S37	1566	((configur\$5 near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4)))with ((data or information or document) adj (scan\$4 or process\$4 or print\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:45
S38	281	S37 with (client or user or operator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:26

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S39	21	S37 with ((client or user or operator)near3 (request\$3 or initiat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:45
S40	3188	((parameter\$1 or configur\$5)near6 (chang\$3 or alter\$5 or modifi\$6 or modif\$4 or updat\$3 or upgrad\$4)))with ((data or information or document) adj (scan\$4 or process\$4 or print\$3 or cop\$3 or imag\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 10:45
S41	33	S40 with ((client or user or operator)near3 (request\$3 or initiat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 11:45
S42	2	"4642792".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 11:45
S43	13	("4642792").URPN.	USPAT	OR	OFF	2007/04/10 11:45
S44	2	("6880075").URPN.	USPAT	OR	OFF	2007/04/10 11:52
S45	21	("20020048045" "4642792" "4674037" "4710886" "4845609" "5050098" "5058035" "5488223" "5495559" "5500848" "5862310" "5899614" "5933656" "6006039" "6035346" "6038375" "6134606" "6173412" "6178004" "6253281" "6501562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/10 11:52

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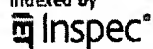
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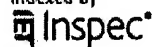
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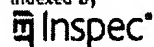
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Banerjee, M.; Vani, B.A.; Krishna, G.R.;
Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th
Volume 6, 26-29 Sept. 2004 Page(s):3908 - 3912 Vol. 6
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1 [Measuring correlation between microarray time-series data using dominant spectral component](#)

Lap Kun Yeung, Hong Yan, Alan Wee-Chung Liew, Lap Keung Szeto, Michael Yang, Richard Kong

 January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 APBC '04**

Publisher: Australian Computer Society, Inc.

 Full text available: [pdf\(284.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Microarray time-series data provides us a possible means for identification of transcriptional regulation relationships among genes. Currently, the most widely used method in determining whether or not two genes have a potential regulatory relationship is to measure their expressional similarity using Pearson's correlation coefficient. Although this traditional correlation method has been successfully applied to find functionally correlated genes, it does have many limitations. In this paper, we ...

Keywords: correlation, gene expression, gene regulation, microarray

2 [Video tooning](#)



Jue Wang, Yingqing Xu, Heung-Yeung Shum, Michael F. Cohen

 August 2004 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2004 Papers SIGGRAPH '04**, Volume 23 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(1.12 MB\)](#) [mov\(19:44 MIN\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe a system for transforming an input video into a highly abstracted, spatio-temporally coherent cartoon animation with a range of styles. To achieve this, we treat video as a space-time volume of image data. We have developed an anisotropic kernel mean shift technique to segment the video data into contiguous volumes. These provide a simple cartoon style in themselves, but more importantly provide the capability to semi-automatically rotoscope semantically meaningful regions. In our sys ...

3 [Characterization of user behavior in a multi-player online game](#)



Michael Kwok, Gary Yeung

 June 2005 **Proceedings of the 2005 ACM SIGCHI International Conference on Advances in computer entertainment technology ACE '05**

Publisher: ACM Press

Full text available:  pdf(674.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, multi-player online games (MOGs) have gained enormous popularity and become a major trend in the entertainment industry. Much research has been focusing on improving the performance and scalability of MOG systems. However, relatively little attention has been paid to the study of user behavior. As with other complex interactive applications, a good understanding of user behavior is important to the design of MOG systems. In this paper, we discuss the advantages of a user behavior ...

Keywords: multi-player online game, user behavior modeling, workload characterization

4 [Animated art & presentations: Stylizing motion with drawings](#)

Yin Li, Michael Gleicher, Ying-Qing Xu, Heung-Yeung Shum

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**

Publisher: Eurographics Association

Full text available:  pdf(2.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we provide a method that injects the expressive shape deformations common in traditional 2D animation into an otherwise rigid 3D motion captured animation. We allow a traditional animator to modify frames in the rendered animation by redrawing the key features such as silhouette curves. These changes are then integrated into the animation. To perform this integration, we divide the changes into those that can be made by altering the skeletal animation, and those that must be made ...

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1 [Visualization with UML: Visual specification and analysis of use cases](#)



Deepali Kholkar, G. Murali Krishna, Ulka Shrotri, R. Venkatesh

 May 2005 **Proceedings of the 2005 ACM symposium on Software visualization SoftVis '05**

Publisher: ACM Press

Full text available: pdf(320.68 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Unified Modelling Language (UML) is popular mainly due to the various visual notations it provides for specifying large systems. In UML the details of a use case are specified in natural language using standard templates [Cockburn 2000]. This is a critical gap leading to detailed requirements of an application being specified in natural language. As a result, inadequate analysis of business requirements is a source of many defects in software application development. Here we propose to bridge th ...

Keywords: UML, model checking, requirements, visual notation

2 [Low Power Design: Power and CAD considerations for the 1.75mbyte, 1.2ghz L2 cache on the alpha 21364 CPU](#)



Joel Grodstein, Rachid Rayess, Tad Truex, Linda Shattuck, Sue Lowell, Dan Bailey, David Bertucci, Gabriel Bischoff, Daniel Dever, Mike Gowan, Roy Lane, Brian Lilly, Krishna Nagalla, Rahul Shah, Emily Shriver, Shi-Huang Yin, Shannon Morton

 April 2002 **Proceedings of the 12th ACM Great Lakes symposium on VLSI GLSVLSI '02**

Publisher: ACM Press

Full text available: pdf(205.76 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A 1.75 MByte L2 cache has been designed and fabricated as part of the Alpha 21364 microprocessor[1] (Figure 1), in a .18m bulk CMOS process. The cache was designed to run at 1.2 GHz, and pass-1 samples confirm this. While Alpha CPUs are known primarily for high speed, the combination of package constraints and a tight schedule forced careful attention to the integrated whole of power expenditure and the interaction of CAD with design. The cache consumes only 7% of total die power.

Keywords: CPU, cache memory, logic verification, low-power, timing verification

- ◆ A model for handling approximate, noisy or incomplete labeling in text classification
 Ganesh Ramakrishnan, Krishna Prasad Chitrapura, Raghu Krishnapuram, Pushpak
 Bhattacharyya
 August 2005 **Proceedings of the 22nd international conference on Machine learning
 ICML '05**


Publisher: ACM Press

Full text available:  pdf(827.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We introduce a Bayesian model, BayesANIL, that is capable of estimating uncertainties associated with the labeling process. Given a labeled or partially labeled training corpus of text documents, the model estimates the joint distribution of training documents and class labels by using a generalization of the Expectation Maximization algorithm. The estimates can be used in standard classification models to reduce error rates. Since uncertainties in the labeling are taken into account, the model ...

- 4 Demo abstracts: A sensor-actuator network for damage detection in civil structures
 ◆ Krishna Kant Chintalapudi, Karthik Dantu, Sandeep Babel, Ramesh Govindan, Gaurav
 Sukhatme, John Caffrey
 November 2004 **Proceedings of the 2nd international conference on Embedded
 networked sensor systems SenSys '04**

Publisher: ACM Press

Full text available:  pdf(33.17 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Structural health monitoring (SHM) is a well-established multi-disciplinary research field. The goal of SHM is to develop technologies and techniques to automatically detect, localize, and classify damages in large structures (ships, bridges, aircraft and buildings). The state of the art in SHM relies on collecting response of these structures to ambient phenomena such as wind, passing vehicles or earthquakes at various points in the structure (either via manual inspections or expensive wired ...

Keywords: sensor actuator networks, structural health monitoring

- 5 GAMMA - A High Performance Dataflow Database Machine
 David J. DeWitt, Robert H. Gerber, Goetz Graefe, Michael L. Heytens, Krishna B. Kumar, M.
 Muralikrishna
 August 1986 **Proceedings of the 12th International Conference on Very Large Data
 Bases VLDB '86**

Publisher: Morgan Kaufmann Publishers Inc.



Additional Information: [full citation](#), [citations](#)

- 6 Announcement—the temporal query language TSQL2 final language definition
 ◆ Richard Thomas Snodgrass, Ilsoo Ahn, Gad Ariav, Don Batory, James Clifford, Curtis E.
 Dyreson, Ramez Elmasri, Fabio Grandi, Christian S. Jensen, Wolfgang Käfer, Nick Kline,
 Krishna Kulkarni, T. Y. Cliff Leung, Nikos Lorentzos, John F. Roddick, Arie Segev, Michael D.
 Soo, Suryanarayana M. Sripada
 September 1994 **ACM SIGMOD Record**, Volume 23 Issue 3


Publisher: ACM Press

Additional Information: [full citation](#), [citations](#), [index terms](#)


- 7 A TSQL2 tutorial
 Richard Thomas Snodgrass, Ilsoo Ahn, Gad Ariav, Don Batory, James Clifford, Curtis E.
 Dyreson, Ramez Elmasri, Fabio Grandi, Christian S. Jensen, Wolfgang Käfer, Nick Kline,

-  Krishna Kulkarni, T. Y. Cliff Leung, Nikos Lorentzos, John F. Roddick, Arie Segev, Michael D. Soo, Suryanarayana M. Sripada
September 1994 **ACM SIGMOD Record**, Volume 23 Issue 3
Publisher: ACM Press
Full text available:  [pdf\(702.38 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

8 TSQL2 language specification

-  Richard Thomas Snodgrass, Ilsoo Ahn, Gadi Ariav, Don Batory, James Clifford, Curtis E. Dyreson, Ramez Elmasri, Fabio Grandi, Christian S. Jensen, Wolfgang Käfer, Nick Kline, Krishna Kulkarni, T. Y. Cliff Leung, Nikos Lorentzos, John F. Roddick, Arie Segev, Michael D. Soo, Suryanarayana M. Sripada
March 1994 **ACM SIGMOD Record**, Volume 23 Issue 1
Publisher: ACM Press
Additional Information: [full citation](#), [citations](#), [index terms](#)

9 Proceedings of the 2001 international conference on Compilers, architecture, and synthesis for embedded systems

-  Krishna Palem, Guang R. Gao, Trevor Mudge
November 2001 proceeding
Publisher: ACM Press
Additional Information: [full citation](#), [abstract](#)

Embedded computing systems and their applications encompass a wide range of research areas across many disciplines in computer science and engineering. Over the past decade, substantial research has gone into the design of general-purpose microprocessors with an emphasis on high-performance. The research in this highly successful effort was performed across "communities" that formed a vertically organized slice from CAD tools through architecture to highly sophisticated compilers. CASES aims to ...

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1 Change management of distributed systems



Jeff Kramer, Jeff Magee

 September 1988 **Proceedings of the 3rd workshop on ACM SIGOPS European workshop: Autonomy or interdependence in distributed systems? EW 3**

Publisher: ACM Press

 Full text available: pdf(416.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

One of the major challenges in the use of distributed computing systems is the accomodation of evolutionary change. Systems evolve as human needs change, technology changes and the application environment changes. These changes may require modification of a function already provided by the system, or extension by the introduction of new functions. In general, evolutionary changes are difficult to accomodate as they cannot be predicted at the time the system is designed. Consequently, systems sho ...

2 Dynamic Accommodation of Change: Automated Architecture Configuration of Distributed Systems

Gabriele Taentzer, Michael Goedicke, Torsten Meyer

 October 1999 **Proceedings of the 14th IEEE international conference on Automated software engineering ASE '99**

Publisher: IEEE Computer Society

 Full text available: [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

A major challenge in developing and coordinating distributed agents is to accommodate changes introduced at one agent and to propagate it to every other interested party. This presents a special difficulty if the information maintained in a node is highly structured. Examples of such problems are dynamic accommodation of structural changes in distributed software systems or consistency management of multiple viewpoints in typical multiple perspectives/stakeholders settings: modifications or chan ...

3 Performance modeling and analysis: Optimizing systems by work schedules: (a stochastic approach)



William J. Ray, Luqi, Valdis Berzins

 July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**


Publisher: ACM Press

Full text available:  pdf(116.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Many systems have very predictable points in time where the usage of a network changes. These systems are usually characterized by shift changes where the manning and functions performed change from shift to shift. We propose a pro-active optimization approach that uses predictable indicators like manning schedules, season, mission, and other foreseeable periodic events to configure distributed object servers. Object-Oriented computing is fast becoming the de-facto standard for software developm ...

Keywords: and performance tuning, distributed computing, load balancing, object-oriented programming, stochastic optimization

4 [Run-Time defect tolerance using JBits](#)

 Prasanna Sundararajan, Steven A. Guccione
February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays FPGA '01**


Publisher: ACM Press

Full text available:  pdf(135.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The ability to tolerate defects in semiconductor devices has the potential for both increasing yields of devices being manufactured and making it economically feasible to manufacture even larger devices. While FPGA devices appear to be well suited to providing defect tolerance, practical application of existing research and techniques has been somewhat elusive. One barrier to acceptance is that existing defect tolerance techniques for FPGAs have tended to rely on either modifications to de ...

Keywords: FPGA, Java, cores, defect tolerance, run-time reconfiguration

5 [Fast simulation of networks of queues with effective and decoupling bandwidths](#)

 Matthias Falkner, Michael Devetsikiotis, Ioannis Lambadaris
January 1999 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,
Volume 9 Issue 1

Publisher: ACM Press

Full text available:  pdf(150.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A significant difficulty when using Monte Carlo simulation for the performance analysis of communication networks is the long runtime required to obtain accurate statistical estimates. Under the proper conditions, importance sampling (IS) is a technique that can speed up simulations involving rare events in network (queuing) systems. Large speed-up factors in simulation runtime can be obtained with IS if the modification or bias of the underlying probability measures of certain random proc ...

Keywords: asynchronous transfer mode, fast simulation, importance sampling, rare events

6 [General applications and methodology: General applications 2: simulation system modeling for mass customization manufacturing](#)

Guixiu Qiao, Charles McLean, Frank Riddick
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02**

Publisher: Winter Simulation Conference

Full text available:  pdf(411.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Emerging rapidly as a new paradigm of the 21st century, Mass Customization Manufacturing (MCM) systems possess some special characteristics that make the modeling of such systems extremely difficult. These characteristics include concurrency, synchronization, and cooperation among subsystems. Moreover, MCM emphasizes shortened product life-cycles, which means production lines have to be changed or reconfigured frequently. Highly flexible and re-configurable factories must be designed, simulat ...

7 Architecture and technology: A routing fabric for monolithically stacked 3D-FPGA



Mingjie Lin, Abbas El Gamal

February 2007 **Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays FPGA '07**

Publisher: ACM Press

Full text available: pdf(215.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A previous study on the benefits of monolithically stacked 3D-FPGA has estimated a 3.2x improvement in logic density, a 1.7x improvement in delay, and a 1.7x improvement in dynamic power consumption over a baseline 2D-FPGA with no change in architecture. This paper describes a new routing fabric and shows that a 3D-FPGA using this fabric can achieve a 3.3x improvement in logic density, a 2.35x improvement in delay, and a 2.82x improvement in dynamic power consumption over the same baseline 2D-FP ...

Keywords: 3D monolithically stacked, FPGA, performance analysis, routing architecture

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